

Amendments to the Drawings:

Attached hereto is(are) two (2) sheet(s) of corrected drawings that comply with the provisions of 37 C.F.R. § 1.84. The corrected drawings incorporate the following drawing changes:

The attached sheets of drawings include changes to Figs. 2 and 3. These sheets, which include Figs. 1-3, replace the original sheets including Figs. 1-3. In Figure 2, a boundary line has been inserted as requested by the Examiner. In Figure 3, a descriptive label for block 24 has been amended to read "DELAY CIRCUIT" and a descriptive label for block 30 has been amended to read "MULTIPLIER". Replacement drawing sheets and annotated drawing sheet are attached. The annotated drawing sheets indicate the changes in red ink.

It is respectfully requested that the corrected drawings be approved and made a part of the record of the above-identified application.

REMARKS

The Office action of February 8, 2005 has been received and its contents carefully noted. Claims 1-3, 5-7, and 13-16 are pending in the application, and claims 1, 2 and 13-16 have been amended.

The Drawings

The drawings have been amended in accordance with the suggestions provided in paragraph 2 of the February 8, 2005 Office Action. Accordingly, the Examiner is respectfully requested to withdraw the objection to the drawings.

The Claim Objections

The claims have been amended in accordance with the suggestions provided in paragraph 3 of the February 8, 2005 Office Action, except that the dependencies of claims of claims 3 and 5-7 have not been amended. The Office Action states, "Wherein claims 3, and 5-7 are depended [sic] upon claim 1." The Applicant believes that the dependencies of claims 3 and 5-7 are correct, and that there is no need to amend the dependencies. Accordingly, the Examiner is respectfully requested to withdraw the objection to the claims.

The Claim Rejections - 35 U.S.C. § 112

Claims 1-3, 5-7 and 13-16 have been rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. The Applicant respectfully traverses the rejection.

Applicant does not see any inconsistency between the claims and Fig. 3. The difference between the absolute values is provided by subtractor 22 and this is sent (via the absolute converter block 26 and block 28) to the rising edge detector 38, so these components collectively represent "the first circuit for determining and monitoring the difference between the absolute values . . . ". The peak detector 40 is the "second circuit for generating a synchronisation pulse . . . ". The "device" is the receiver of Fig. 1, except for the circuit of Fig. 3 being used for symbol synchronisation circuit 20 (See page 5, lines 13-15).

The Office Action states that, "the specification fails to explain which element(s) of Figure 3 generates the synchronization pulse". The Examiner's attention is kindly directed to page 8, lines 5 to 7, which explicitly states that the "peak detector 40 outputs a logic high signal . . . which is used as the sync pulse."

Claim 3 is objected to for reciting an IIR filter which is allegedly not shown in Figure 3. The Examiner's attention is kindly directed to page 4, lines 1 to 3 which refers to the desirability of using an IIR filter for integrating difference values over a number of symbols; page 6, lines 20 to 22 which refers to this function being formed by the integrating circuit 28; and particularly, page 7, line 13 which specifies the effect of integrating circuit 28 and which one skilled in the art would readily recognize to mean that the integrating circuit 28 is an IIR filter.

The Office Action states that the demodulating and synchronizing step are not mentioned in the specification. The demodulating step is performed by the apparatus of Figure 1, and the synchronization step by the block 20, as described on page 4, line 15 to page 5, line 12. The Examiner has requested Applicant to label Figure 1 as "prior art". Although the drawing is applicable to the prior art, it is equally applicable to the present

invention if the techniques described with reference to Figure 3 are used in block 20, as specified on page 5, lines 13 to 15.

With regard to paragraph 7 of the Office Action, claim 15 has been amended to overcome the lack of an antecedent basis.

The Applicant respectfully submits that all the issues included in the Office Action with respect to 35 U.S.C. § 112, first paragraph, have been addressed, and that the specification complies with the enablement requirement. Accordingly, the Examiner is respectfully requested to withdraw the rejection.

Allowable Subject Matter

Paragraph 8 of the Office Action indicates that claims 1-3, 5-7 and 13-16 would be allowable if rewritten or amended to overcome the objections and rejections under 35 U.S.C. § 112, first paragraph and second paragraph. It is respectfully submitted that the claims have been amended to overcome the objections and rejections and that the claims are in condition for allowance.

Conclusion

In view of the above amendments and remarks, it is believed that the claims clearly are in condition for allowance.


Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Richard J. McGrath (Reg. No. 29,195) at the telephone number of (703) 205-8000, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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By


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1906-0121P

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~~REPLACEMENT SHEET~~

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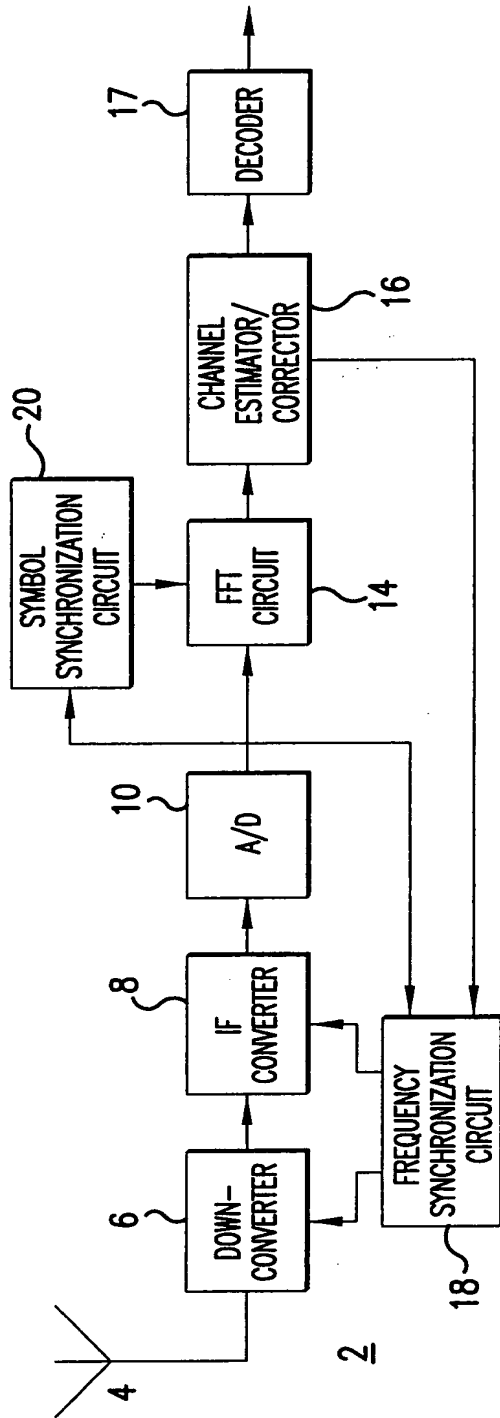


FIG. 1

PRIOR ART

vertical line

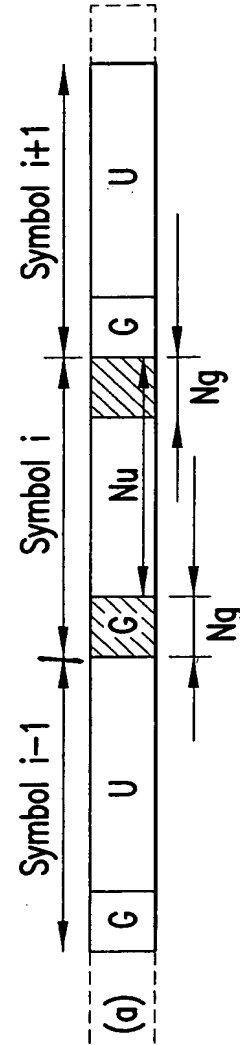


FIG. 2

REPLACEMENT SHEET

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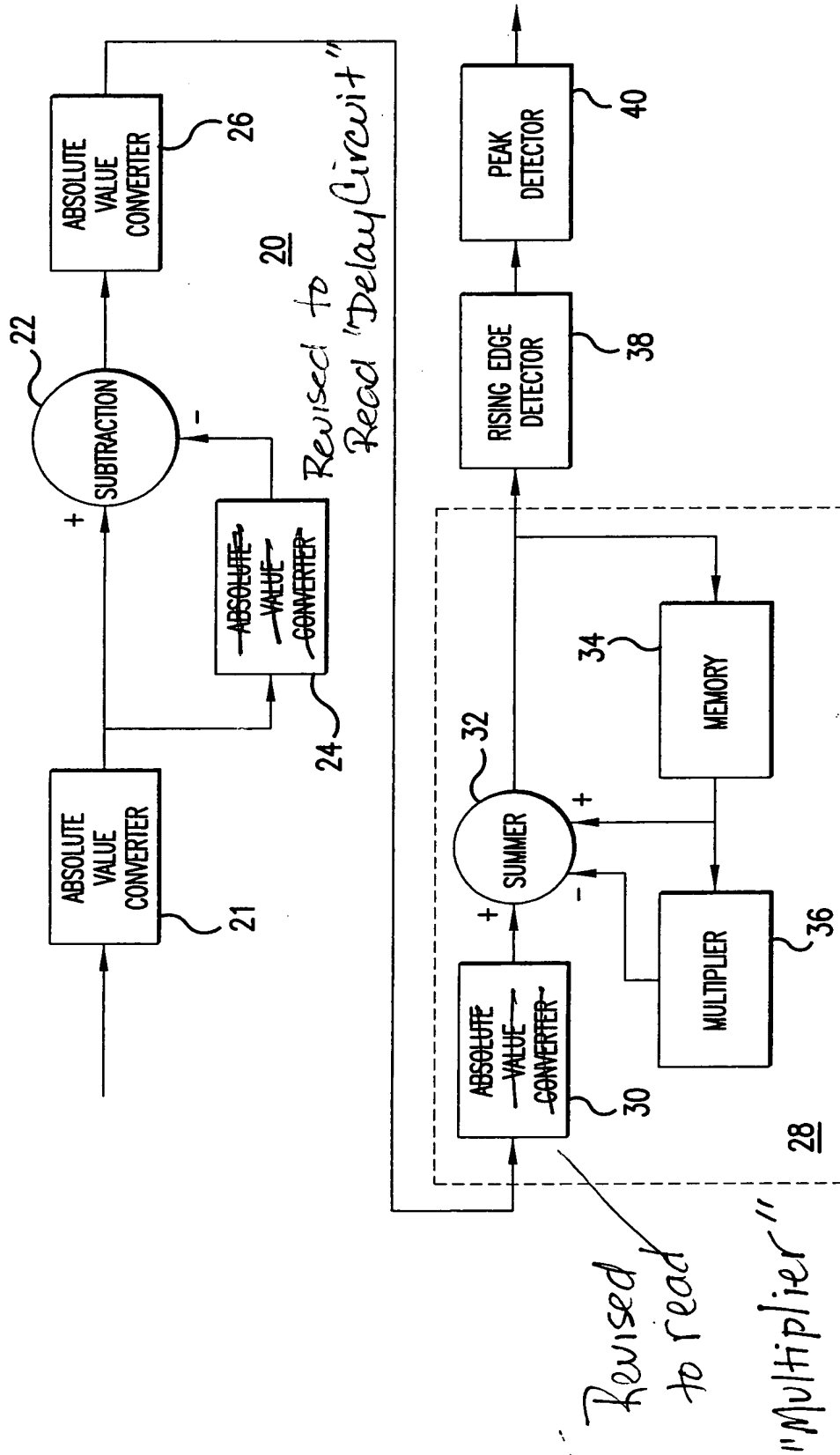


FIG. 3